



State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

February 26, 2015

Ken May, Resident Agent
Canyon Fuel Company, LLC
597 South SR24
Salina, Utah 84654

Subject: Add Asphalt, Belt Sump & Drainage Control, Canyon Fuel Company, LLC,
Sufco Mine, C/041/0002, Task ID #4785

Dear Mr. May:

The Division has reviewed your application. The Division has identified deficiencies that must be addressed before final approval can be granted. The deficiencies are listed as an attachment to this letter.

The deficiencies authors are identified so that your staff can communicate directly with that individual should questions arise. The plans as submitted are denied. Please resubmit the entire application.

If you have any questions, please call me at (801) 538-5350.

Sincerely,

Steve Christensen
Permit Supervisor

SKC/sqs
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Technical Analysis and Findings

Utah Coal Regulatory Program

PID: C0410002
TaskID: 4785
Mine Name: SUFCO MINE
Title: ADD ASPHALT, BELT SUMP & DRAINAGE CONTROL

Reclamation Plan

Bonding Determination of Amount

Deficiencies Details:

Per R645-301-830.140 the application does not meet the minimum requirements of the state code and is deficient:

1. The wrong RS Means Heavy Construction Unit cost was applied to the Steel Building Large (02 41 16.13 0020)
 - a. According to Division standard and OSM Handbook for Calculation of Reclamation Bond Amounts, Bare Units costs will be utilized. The Permittee's application utilized Total- Including Overhead & Profit.
 - b. 2014 RS Means Heavy Construction bare unit cost for 02 41 16.13 0020= \$0.27
2. The Permittee must apply the ceiling function to total trips, as a truck rental unit is defined as a day.
 - a. The transportation cost of a steel truck for 4.3 Days is 5 days multiplied by the cost per day.
3. The wrong RS Means Heavy Construction Unit cost was applied to the Truck Driver, Heavy.
 - a. According to Division standard and OSM Handbook for Calculation of Reclamation Bond Amounts, Bare Units costs will be utilized. The Permittee's application utilized Total- Including Overhead & Profit.
 - b. 2014 RS Means Heavy Construction bare unit cost for a heavy equipment truck driver is = \$37.55.
4. The asphalt demolition must include the swell factor of 1.3 and be converted from square yards to cubic yards to determine the volume for disposal in a 16 ton dump truck.
 - a. The wrong surface area was applied to the unit cost of the asphalt. According to the text submitted with the application in the Engineering chapter, the surface area to be repaved is 14,960 square feet which is equivalent to 1662.22 SY.
 - b. 2014 RS Means Heavy Construction bare unit cost for asphalt demo four to eight inches thick (02 41 13.17 5050) is = \$7.01/SY.
 - c. 1662 SY of asphalt demoed creates a volume of 480 CY (1662 SY * pavement thickness in yards8 swell of 1.3 during demo= volume of 480 CY
 - d. 2014 RS Means Heavy Construction bare unit cost for a 12 CY dump truck traveling up to ½ mile round trip (31 23 23.20 1014) =\$2.95/CY
 - e. 2014 RS Means Heavy Construction bare unit cost for onsite disposal is = \$8.65/CY.
 - f. Assumes no base layer is removed under the asphalt
5. The junction boxes need to be a separate new line item. Clarification is requested on the new line item of the junction boxes in order to determine the appropriate unit cost for reclamation.
 - a. Define the type of junction box as either cast in place or pre-cast. RS Means Heavy Construction(02 41 13.42 ?????)
 - b. Include the Type 2 and Type 3 dimensions.
6. The Belt Sump is improperly costed as 6" concrete, when the details C501 show that the concrete is 1'-6".
 - a. The walls should be detailed out as RS Means Heavy Construction 12" thick walls (02 41 16.17 2100) with 02 41 16.17 2220 to account for the vertical reinforcement. The estimated volume of walls was calculated by estimating the slab volume based of details C501, 502 and 19.34 CY or 522 SF

b. The slab should utilize unit cost RS Means Heavy Construction 12" concrete on grade with reinforcing (02 41 16.17 2500, 16.17 2600)

7. A line item needs to be added to account for the removal of the CMP drainage pipe connecting the junction boxes.

a. 2014 RS Means Heavy Construction bare unit cost for cmp aluminum pipe demo 6-10" diameter demo (02 41 13.40 0020) is = \$1.66/L.F.

A pdf of the Division estimate will be included in the report.

cparker

Ref.	Description	Materials	Means Reference	Unit	Unit Cost	length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Spall Factor	Quantity	Unit	Cost
West Lease Tunnels & Belt																				
	Structures Demolition Cost	Steel Bid large	02 41 16 13 0020	0.27 /CF		183	14	12								FT		30744 CF		8301
	Structures Vol Demolished	Total steel vol for all buildings															0.1	201.09 CV		2803
	Structures Demolition Cost	Steel Bid large	02 41 16 13 0020	0.27 /CF		139	8.3	9								FT		10383 CF		2761
	Structures Demolition Cost	Steel Bid large	02 41 16 13 0020	0.27 /CF		352	8.3	3.5								FT		10228 CF		2761
	Structures Demolition Cost	Steel Bid large	02 41 16 13 0020	0.27 /CF		30	24.5	4								FT		2940 CF		794
	Disposal Cost Non Steel																			
	Steel's Weight																			
	Truck's Capacity															CV		13 Trips		3461
	Haulage	Truck dump 16 ton payload	01 54 33 20 5300	692.2 /day							16				3	Trips/Day		4.3 DAY		1282
	Transportation Cost Steel Truck	Truck Driver, Heavy	1THV	\$37.55 /HR														34.4 HR		
	Disposal Cost Steel																			
Subtotal																				
	Asphalt Removal - Phase 2 Yard																			
	Asphalt 6-8" Demantling Cost	Pavement Removal 4.6"	02 41 13 17 5060	7.01 /SY						1662.22						SY		1662 SY		11651
	Equipment Vol Demolished	Front end loader 3 CY	31 23 16 42 1300	1.67 /CY													1.3	490 CV		802
	Loading Costs	12 CY (16 Ton) Dump Truck 1/2 m and 1H31 23 23 20 1014	2.95 /CY															1416 CV		4152
	Transport Costs	On site disposal	02 41 16 17 4200	8.65 /CY														490 CV		4152
	Disposal Costs																			18021
Subtotal																				
	Equipment's Disposal Cost																			
	Demantling Cost	Slab 6" thick plain	02 41 16 17 0400	4.57 /SF							20					CY		1080 SF		4936
	Equipment Vol Demolished	Front end loader 3 CY	31 23 16 42 1300	1.67 /CY													1.3	26 CV		43
	Loading Costs	12 CY (16 Ton) Dump Truck 1/2 m and 1H31 23 23 20 1014	2.95 /CY															77 CV		225
	Transport Costs	On site disposal	02 41 16 17 4200	8.65 /CY														26 CV		5281
	Disposal Costs																			
Subtotal																				
	Concrete Demolition																			
	Demolition Cost	Slab 6" thick plain	02 41 16 17 0400	4.57 /SF							2153					CY		116232 SF		531317